Panasonic

Operating Instructions

Digital Cordless Phone

Model No. **KX-TG8200HK**

TG8200HK

PQQX16123ZA   CC1007PF0   HK-2/2
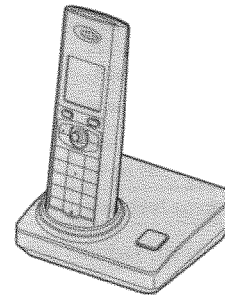
SMS

This unit is compatible with Caller ID and SMS. To use these features, you must subscribe to the appropriate service of your service provider/telephone company.

Charge the batteries for about 7 hours before initial use.

Please read these operating instructions before using the unit and save them for future reference.

Introduction

Thank you for purchasing a new Panasonic digital cordless phone.

For your future reference
Keep original receipt and guarantee card to assist with any repair under warranty.

Serial No. (found on the bottom of the base unit)
Date of purchase
Name and address of dealer

Note:
• In the event of problems, you should contact your equipment supplier in the first instance.

Accessory information

Supplied accessories

No.	Accessory items	Quantity
①	AC adaptor for base unit (Part No. PQLV207E)	1
②	Telephone line cord	2
③	Rechargeable batteries AAA (R03) size (Part No. HHR-55AAAB)	2
④	Handset cover*1	1

*1 The handset cover comes attached to the handset.

Additional/replacement accessories

Please contact your nearest Panasonic dealer for sales information.

No.	Model No.	Description
①	KX-TGA820HM	Additional Digital Cordless Handset
②	KX-TCA94EX	Headset
③	KX-A272	DECT repeater

②

Note:

- When replacing the batteries, use only 2 rechargeable AAA (R03) size nickel metal hydride (Ni-MH) batteries. We recommend using Panasonic rechargeable batteries (Model No. HHR-4EPT).
- Replacement batteries may have a different capacity from that of the supplied batteries.

Important information

General

- Use only the AC adaptor supplied with this product, noted on page 3.
- Do not connect the AC adaptor to any AC outlet other than a standard 220–240 V AC outlet.
- This product is unable to make calls when:
  - the portable handset battery(ies) need recharging or have failed.
  - there is a power failure.
  - the key lock feature is turned on.
- Do not open the base unit, charger, or handset other than to replace the battery(ies).
- Consult the manufacturer of any personal medical devices, such as pacemakers or hearing aids, to determine if they are adequately shielded from external RF (radio frequency) energy. (The product operates in the frequency range of 1.88 GHz to 1.90 GHz, and the power output is 250 mW (max.).) Do not use the product in health care facilities if any regulations posted in the area instruct you not to do so. Hospitals or health care facilities may be using equipment that could be sensitive to external RF energy.
- Care should be taken that objects do not fall onto, and liquids are not spilled into, the product. Do not subject this product to excessive smoke, dust, mechanical vibration or shock.

Environment

- Do not use this product near water.
- This product should be kept away from heat sources such as radiators, cookers, etc. It should also not be placed in rooms where the temperature is less than 5 °C or greater than 40 °C.

Warning:

- To prevent the risk of electrical shock, do not expose this product to rain or any other type of moisture.
- Unplug this product from power outlets if it emits smoke, an abnormal smell, or makes unusual noise. These conditions can cause fire or electric shock. Confirm that smoke has stopped emitting and contact an authorised service centre.
- Do not spill liquids (detergents, cleansers, etc.) onto the telephone line cord plug, or allow it to become wet at all. This may cause a fire. If the telephone line cord plug becomes wet, immediately pull it from the telephone wall jack, and do not use.
- Do not place or use this product near automatically controlled devices such as automatic doors and fire alarms. Radio waves emitted from this product may cause such devices to malfunction resulting in an accident.
- Regularly remove any dust, etc. from the AC adaptor/power plug by pulling it from the power outlet, then wiping with a dry cloth. Accumulated dust may cause an insulation defect from moisture, etc. resulting in a fire.
- Do not damage the power cord/plug. This may cause a short circuit, electric shock, and/or fire.
- Do not touch the plug with wet hands.
- The AC adaptor is used as the main disconnect device. Ensure that the AC outlet is installed near the product and is easily accessible.

Battery caution

- We recommend using the battery(ies) noted on page 4. **Use only rechargeable battery(ies).**
- Do not mix old and new batteries.
- Do not dispose of the battery(ies) in a fire, as they may explode. Check with local waste management codes for special disposal instructions.
- Do not open or mutilate the battery(ies). Released electrolyte from the battery(ies) is corrosive and may cause burns or injury to the eyes or skin. The electrolyte may be toxic if swallowed.
- Exercise care when handling the battery(ies). Do not allow conductive materials such as rings, bracelets or keys to touch the battery(ies), otherwise a short circuit may cause the battery(ies) and/or the conductive material to overheat and cause burns.
- Charge the battery(ies) provided with or identified for use with this product only in accordance with the instructions and limitations specified in this manual.
- Only use a compatible base unit (or charger) to charge the battery(ies). Do not tamper with the base unit (or charger). Failure to follow these instructions may cause the battery(ies) to swell or explode.

Notice for product disposal, transfer, or return

- This product can store your private/confidential information. To protect your privacy/confidentiality, we recommend that you erase the information such as phonebook or caller list entries from the memory before you dispose, transfer or return the product.
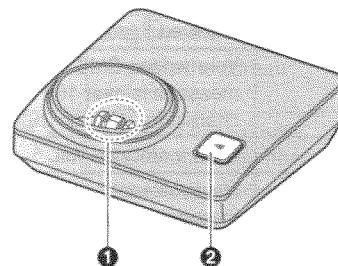
Information on Disposal in other Countries outside the European Union
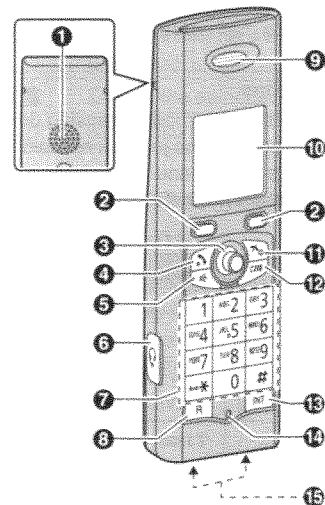
This symbol is only valid in the European Union.
If you wish to discard this product, please contact your local authorities or dealer and ask for the correct method of disposal.

Routine care

- **To clean the product, use a dry soft cloth. The outer surface of the product can be scratched by wiping or rubbing with a hard cloth.**
- Do not use benzine, thinner, or any abrasive powder.
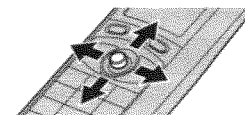
Controls

Base unit

❶ Charge contacts
❷ [⋅⑴] (Page)

Handset

❶ Speaker
❷ Soft keys
❸ Joystick
❹ [➚] (Talk)
❺ [⇦] (Speakerphone)
❻ Headset jack
❼ Dial keypad
❽ [R] (Flash)
❾ Receiver
❿ Display
⑪ [☏⓪] (Off/Power)
⑫ [C/⌧] (Clear/Mute)
⑬ [INT] (Intercom)
⑭ Microphone
⑮ Charge contacts

Using the joystick

Push the joystick up, down, left, or right to navigate through menus and to select.

Note:

- When selecting menu or the desired item, these operating instructions use the following indication.
  Example: [▲]/[▼]: "Off"
  Push the joystick up or down to select the words in quotations.

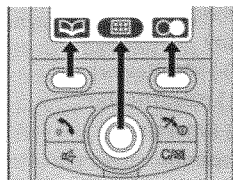## Adjusting the receiver or speaker volume

Push the joystick up or down while on a call.

Volume up

Volume down
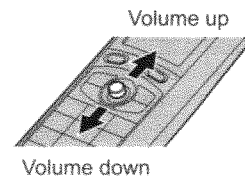
Soft keys

The handset features 2 soft keys and a joystick. By pressing a soft key, or by pressing the centre of the joystick, you

can select the feature shown directly above it on the display.

Displays

Display icons

Icon	Meaning
Y	Within range of a base unit ● When flashing: Handset is searching for base unit. (page 42)
•)))	Handset is accessing base unit. (intercom, paging, changing base unit settings, etc.)
☎	Handset is on an outside call.
→)	Missed call[*1] (page 25)
🔋	Battery level
⊕	Alarm is on. (page 21)
🕻	Voice enhancer is set. (page 15)
✕	Call privacy mode is on. (page 15)
🔔	Ringer volume is off. (page 19)
🌙	Night mode is on. (page 21)
[1]	Handset number (standby display setting, page 19)

Icon	Meaning
-1-	Base unit number (standby display setting, page 19)
✉	New SMS message received[*2] (page 31)
📧	Your written SMS message is over 160 characters.[*2] (page 29)
⊖	SMS memory is full.[*2]
📨	New voice mail message received[*3] (page 27)
IN USE	Line is being used by another handset for calling, registration, etc.

*1 Caller ID subscribers only
*2 SMS users only
*3 Voice mail users only

Menu icons

When in standby mode, pressing down on the centre of the joystick reveals the handset's main menu. From here you can access various features and settings.

Icon	Feature
→📞 →]	Caller List
✉ ✉	SMS (Short Message Service)
🕐 🕐	Time Settings
📱 📱	Handset Setup
📞 📞	Base Unit Setup
📱 🖼	Display Setup

Soft key icons

Icon	Action
◄	Returns to the previous screen.
⊞	Displays the menu.
OK	Accepts the current selection.
◄	Displays a previously dialled phone number.
📖	Opens the handset phonebook.
🔍	Displays the phonebook search menu.
◄0	Turns the key lock feature off. (page 15)
1/A/?	Selects a character entry mode.
P	Inserts a dialling pause. (page 13)
X	Erases the selected item.
░░░	No function

Connections

Connect the telephone line cord until it clicks into the base unit and telephone line jack (❶). Connect the AC adaptor cord (❷) by pressing the plug firmly (❸).

Hooks

USE ONLY the supplied AC adaptor.

→ (220–240 V, 50 Hz)

→ To telephone line

USE ONLY the supplied cord.
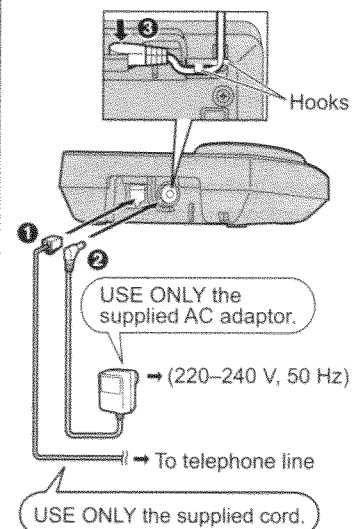
Important:
● If you use a telephone line cord which is not supplied, the unit may not work properly.

Note:
● Never install telephone wiring during a lightning storm.
● The AC adaptor must remain connected at all times. (It is normal for the adaptor to feel warm during use.)
● The AC adaptor should be connected to a vertically oriented or floor-mounted AC outlet. Do not connect the AC adaptor to a ceiling-mounted AC outlet, as the weight of the adaptor may cause it to become disconnected.
● The unit will not work during a power failure. We recommend connecting a corded telephone to the same telephone line or to the same telephone jack using a T-adaptor.

Location of base unit

- For maximum coverage and noise-free communications, place your base unit:
  - at a convenient, high, and central location with no obstructions between the handset and base unit in an indoor environment.
  - away from electronic appliances such as TVs, radios, personal computers, wireless devices or other phones.
  - avoid facing radiofrequency transmitters, such as external antennas of mobile phone cell stations (Avoid putting the base unit on the bay window or near the window).
- Coverage and voice quality depends on the local environmental conditions.
- If the reception for a base unit location is not satisfactory, move the base unit to another location for better reception.

Battery installation and replacement

Important:

- Use only the supplied rechargeable batteries noted on page 3, 6.
- USE ONLY rechargeable Ni-MH batteries AAA (R03) size.
- Do NOT use Alkaline/Manganese/Ni-Cd batteries.
- Ensure correct polarities ($\oplus$, $\ominus$) when installing the batteries.
- Wipe the battery ends ($\oplus$, $\ominus$) with a dry cloth.
- When installing the batteries, avoid touching the battery ends ($\oplus$, $\ominus$) or the unit contacts.

- When replacing batteries, we recommend using the Panasonic rechargeable batteries noted on page 4, 6.
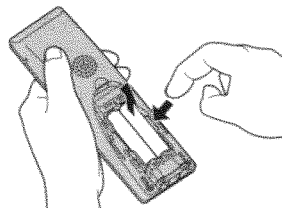
1 Press the notch on the handset cover firmly and slide it in the direction of the arrow.
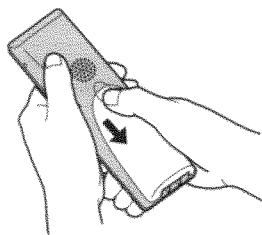
2 Insert the batteries negative ($\ominus$) end first. Close the handset cover.

Rechargeable Ni-MH ONLY
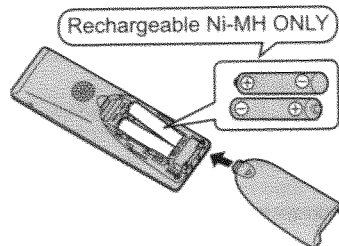
Note:

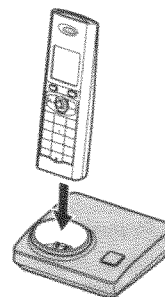- When replacing batteries, remove the old batteries.

Battery charge

Place the handset on the base unit for about 7 hours before initial use.
When charging, "Charging" will be displayed.
When the batteries are fully charged, "Charge Completed" will be displayed.

Note:

- It is normal for the handset to feel warm during charging.
- If you want to use the unit immediately, charge the batteries for at least 15 minutes.
- Clean the charge contacts of the handset and base unit with a soft, dry cloth once a month. Clean more often if the unit is subject to the exposure of grease, dust, or high humidity.

Battery level

Battery icon	Battery level
🔋	High
🔋	Medium
🔋	Low • When flashing: Needs to be charged.

Panasonic Ni-MH battery performance (supplied batteries)

Operation	Operating time
In continuous use	12 hours max.
In continuous standby mode	150 hours max.

Note:

- It is normal for batteries not to reach full capacity at the initial charge. Maximum battery performance is reached after a few complete cycles of charge/discharge (use).
- To maximize battery life, it is recommended that the handset batteries be fully discharged (used) until 🔋 flashes once every few months.
- Actual battery performance depends on a combination of how often the handset is in use and how often it is not in use (standby).
- The battery level may not be displayed correctly after you replace the batteries. In this case, place the handset on the base unit and let it charge for at least 7 hours.

Screen saver mode

The backlight will turn off completely after 1 minute of inactivity if the handset is not on the base unit. Press [📵] to turn the display on again.

Turning the power on/off

Power on

Press [✆] for about 1 second.

Power off

Press [✆] for about 2 seconds.

Setting up the unit before use

Display language

1   [✆] → 🎛️

2   Select 🎚️ by pushing the joystick in any direction. → **OK**

3   Push the joystick up or down to select "Display Setup". → **OK**

4   Push the joystick up or down to select "Select Language". → **OK**

5   Push the joystick up or down to select the desired language. → **OK** → [✆]

Note:

• If you select a language you cannot read: [✆] → 🎛️ → 🎚️ → **OK** → Push the joystick down 2 times. → **OK** → Push the joystick down 3 times. → **OK** → [▲]/[▼]: Select the desired language. → **OK** → [✆]

Dialling mode (tone/pulse)

Change the dialling mode depending on your telephone line service.

"Tone": Select when you have a touch-tone service.

"Pulse": Select when you have rotary/pulse service.

1   🎛️ (centre of joystick)

2   Select 📟 by pushing the joystick in any direction. → **OK**

3   Push the joystick up or down to select "Call Options". → **OK**

4   Push the joystick up or down to select "Dial Mode". → **OK**

5   Push the joystick up or down to select the desired setting. → **OK** → [✆]

Date and time

1   🎛️ (centre of joystick)

2   Select 🎚️ by pushing the joystick in any direction. → **OK**

3   Push the joystick up or down to select "Time Settings". → **OK**

4   Push the joystick up or down to select "Set Date & Time". → **OK**

5   Enter the current date, month, and year.
Example: 17 May, 2007
[1][7] [0][5] [0][7]

6   Enter the current hour and minute.
Example: 3:30 PM
[0][3] [3][0] → Press [*] until "03:30 PM" is displayed.

7   **OK** → [✆]

Note:

• To correct a digit, use the joystick to move the cursor to the digit, then make the correction.

• The date and time may be incorrect after a power failure. In this case, set the date and time again.

Making calls

1   Lift the handset and dial the phone number.
• To correct a digit, press [C/🗑️].

2   [📞]

3   When finished talking, press [✆] or place the handset on the base unit.

Speakerphone

1   During a conversation, press [🔊] to turn on the speakerphone.
• Speak alternately with the caller.

2   When finished talking, press [✆].

Note:

• For best performance, use the speakerphone in a quiet environment.

• To switch back to the receiver, press [📞].

Adjusting the receiver or speaker volume

Push the joystick up or down while on a call.

Making a call using the redial list

The last 10 phone numbers dialled are stored in the redial list (each 24 digits max.).

1   [●] (right soft key)

2   [▲]/[▼]: Select the desired number.

3   [📞]/[🔊]
• If [🔊] is pressed and the other party's line is engaged, the unit will automatically redial multiple times. To cancel, press [✆].

Editing/erasing/storing

1   [●] (right soft key)

2   [▲]/[▼]: Select the desired number. → 🎛️

3   Proceed with the desired operation.

■ **Editing a number before calling it:**
[▲]/[▼]: "Edit and Call" → **OK** → Use the joystick to move the cursor. → Edit the number. → [📞]

■ **Erasing numbers:**
[▲]/[▼]: "Erase" or "Erase All" → **OK** → [▲]/[▼]: "Yes" → **OK** → [✆]

■ **Storing a number into the handset phonebook:**
[▲]/[▼]: "Add Phonebook" → **OK** → Enter a name (16 characters max.; page 38). → **OK** → Edit the phone number if necessary. → **OK** → [▲]/[▼]: Select the desired category (page 16). → **OK** → [▲]/[▼]: "Save" → **OK** → [✆]

Note:

• When editing:
– To erase a number, place the cursor on the number, then press [C/🗑️].
– To insert a number, place the cursor to the right of where you want to insert the number, then press the appropriate dial key.

Pause (for PBX/long distance service users)

A pause is sometimes required when making calls using a PBX or long distance service.
Example: If you have to dial [0] before dialling outside numbers manually, you

will probably need to pause after dialling [0] until you hear a dial tone.

1 [0] → **P**

2 Dial the phone number. → [↝]

Note:

● A 3 second pause is inserted each time **P** is pressed. Repeat as needed to create longer pauses.

Answering calls

1 Lift the handset and press [↝] or [⇆] when the unit rings.

● You can also answer the call by pressing any dial key from [0] to [9], [∗], or [#]. **(Any key answer feature)**

2 When finished talking, press [↝①] or place the handset on the base unit.

Auto talk feature

You can answer calls simply by lifting the handset off the base unit. You do not need to press [↝]. To turn this feature on, see page 20.

Adjusting the handset ringer volume when receiving a call

Push the joystick up or down.

Handset locator

Using this feature, you can locate the handset if it has been misplaced.

1 Press [•))] on the base unit.

2 To stop paging, press [•))] on the base unit or press [↝①] on the handset.

Useful features during a call

Mute

While mute is turned on, you will be able to hear the other party, but the other party will not be able to hear you. To mute your voice, press [C/☒].

● To return to the conversation, press [C/☒] again.

R button

Pressing [R] allows you to use special features of your host PBX such as transferring an extension call, or accessing optional telephone services.

Note:

● To change the flash time, see page 23.

For Call Waiting service users

To use Call Waiting, you must subscribe to the Call Waiting service of your service provider/telephone company. This feature allows you to receive calls while you are already talking on the phone. If you receive a call while on the phone, you will hear a Call Waiting tone. Please contact your service provider/telephone company for details and availability of this service in your area. Press [R] to answer the 2nd call.

● To switch between calls, press [R].

Temporary tone dialling (for rotary/pulse service users)

You can temporarily switch the dialling mode to tone when you need to access touch tone services (e.g., telephone banking services).

1 Make a call.

2 Press [∗] when prompted to enter your code or PIN, then press the appropriate dial keys.

Note:

● The dialling mode will return to pulse when you hang up.

Voice enhancer

You can change the tone quality of the receiver while you are on a call.

1 Press ⊞ during a call.

2 [▲]/[▼]: "Voice Enhancer" → **OK**

3 [▲]/[▼]: "High Tone" or "Low Tone" → **OK**

● ℂ is displayed.

Key lock

The handset can be locked so that no calls or settings can be made. Incoming calls can be answered, but all other functions are disabled while key lock is on.

To turn key lock on, press ⊞ (centre of joystick) for about 3 seconds.

● ⬤ is displayed.

● To turn key lock off, press ⬤ (centre of joystick) for about 3 seconds.

Note:

● Calls to emergency numbers cannot be made until key lock is turned off.

Call share

A 2nd handset can join an existing outside call.

To join the conversation, press [↝] or [⇆] when the other handset is on an outside call.

Call privacy

Call privacy allows you to prevent other users from joining your conversations

with outside callers. To allow other users to join your conversations, leave this feature off. The default setting is "Off".

1 Press ⊞ during an outside call.

2 [▲]/[▼]: "Privacy" → **OK**

3 [▲]/[▼]: "On" or "Off" → **OK**

● When this feature is turned on, ☒ is displayed.

Note:

● This feature will turn off after you hang up the call.

Handset phonebook

The handset phonebook allows you to make calls without having to dial manually. You can add 200 names and phone numbers, assign each handset phonebook entry to the desired category.

Adding entries

1 📧 (left soft key) → 🎛
2 [▲]/[▼]: "New Entry" → OK
3 Enter the party's name (16 characters max.; page 38). → OK
4 Enter the party's phone number (24 digits max.). → OK
5 [▲]/[▼]: Select the desired category. → OK
6 [▲]/[▼]: "Save" → OK → [✂①]

Categories

Categories can help you find entries in the handset phonebook quickly and easily. When adding an entry to the handset phonebook you can assign it to the desired category. You can change the names of categories assigned for handset phonebook entries ("Friends", "Family", etc.) and then search for handset phonebook entries by category. Additional category features are available for Caller ID subscribers (page 25).

Changing category names

1 📧 (left soft key) → 🎛
2 [▲]/[▼]: "Category" → OK
3 [▲]/[▼]: Select the desired category. → OK

4 [▲]/[▼]: "Category Name" → OK
5 Edit the name (10 characters max.; page 38). → OK → [✂①]

Finding and calling a handset phonebook entry

Scrolling through all entries

1 📧 (left soft key)
2 [▲]/[▼]: Select the desired entry.
3 [📞]

Searching by first character (index search)

1 📧 (left soft key)
2 Press the dial key ([0] to [9]) which contains the character you are searching for (page 38).
   • Press the same dial key repeatedly to display the first entry corresponding to each letter located on that dial key.
   • If there is no entry corresponding to the letter you selected, the next entry will be displayed.
   • To change the character entry mode:
   🔍 → [▲]/[▼]: "Index Search" → OK → [▲]/[▼]: Select the character entry mode. → OK
3 [▲]/[▼]: Scroll through the phonebook if necessary.
4 [📞]

Searching by category

1 📧 (left soft key) → 🔍
2 [▲]/[▼]: "Category Search" → OK

3 [▲]/[▼]: Select the category you want to search. → OK
   • If you select "All", the unit will end the category search.
4 [▲]/[▼]: Scroll through the phonebook if necessary.
5 [📞]

Editing entries

1 Find the desired entry (page 16). → 🎛
2 [▲]/[▼]: "Edit" → OK
3 Edit the name if necessary (16 characters max.; page 38). → OK
4 Edit the phone number if necessary (24 digits max.). → OK
5 [▲]/[▼]: Select the desired category. → OK
6 [▲]/[▼]: "Save" → OK → [✂①]

Erasing entries

Erasing an entry

1 Find the desired entry (page 16). → 🎛
2 [▲]/[▼]: "Erase" → OK
3 [▲]/[▼]: "Yes" → OK → [✂①]

Erasing all entries

1 📧 (left soft key) → 🎛
2 [▲]/[▼]: "Erase All" → OK
3 [▲]/[▼]: "Yes" → OK
4 [▲]/[▼]: "Yes" → OK → [✂①]

One touch dial

Assigning an entry in the handset phonebook to a one touch dial key

Dial keys [1] to [9] can each be used as a one touch dial key, allowing you to dial a number from the handset phonebook by simply pressing a dial key.

1 Find the desired entry (page 16). → 🎛
2 [▲]/[▼]: "One Touch Dial" → OK
3 [▲]/[▼]: Select the desired dial key number. → OK
   • When the dial key is already used as a one touch dial key, "*" is displayed next to the dial key number. If you select this dial key, you can overwrite the previous assignment.
4 [▲]/[▼]: "Save" → OK → [✂①]

Making a call using a one touch dial key

1 Press and hold the desired one touch dial key ([1] to [9]).
   • You can view other one touch dial assignments by pushing the joystick up or down.
2 [📞]

Cancelling a one touch dial assignment

1 Press and hold the desired one touch dial key ([1] to [9]). → 🎛
2 [▲]/[▼]: "Erase" → OK
3 [▲]/[▼]: "Yes" → OK → [✂①]

Chain dial

This feature allows you to dial phone numbers in the handset phonebook

while you are on a call. This feature can be used, for example, to dial a calling card access number or bank account PIN that you have stored in the handset phonebook, without having to dial manually.

1 While on a call, press 📖.
2 [▲]/[▼]: Select the desired entry.
3 Press **OK** to dial the number.

Note:
● If you are using this phone in pulse dialling mode, you may need to press [✱] to change the dialling mode to tone before chain dialling. When adding entries to the handset phonebook, we recommend adding [✱] to the beginning of phone numbers you wish to chain dial (page 16).

Handset settings

To customise the handset:
1 🔳 (centre of joystick)
2 Select ✂ by pushing the joystick in any direction. → **OK**
3 Push the joystick up or down to select the desired item in the handset settings menu. → **OK**
4 Push the joystick up or down to select the desired item in the sub-menu. → **OK**
   ● In some cases, you may need to select from a second sub-menu. → **OK**
5 Push the joystick up or down to select the desired setting then press **OK**.
   ● This step may vary depending on the feature being programmed.
   ● To exit the operation, press [✂☉].

Note:
● The current item or setting is highlighted on the display.

Menu	Sub-menu	Sub-menu 2 Details (default setting)
Time Settings	Set Date & Time	page 12
	Alarm	page 21
Ringer Setup	Ringer Volume	For handset (Maximum)*1
	Ext. Ringtone	For outside calls ("Ringtone 1")*2, *3
	Night Mode	Start/End (23:00/06:00): page 21
		On/Off ("Off"): page 21
		Ring Delay ("60 sec."): page 22
		Select Category page 22
Display Setup	Wallpaper	("Wallpaper1")
	Display Colour	("Colour1")
	Standby Display	("Off")*4
	Select Language	("English"): page 12
	Contrast	("Contrast 3")
Registration	Register H.set	page 34
Select Base	—	("Auto"): page 35

Menu	Sub-menu	Sub-menu 2 Details (default setting)
Other Options	Keytones	("On")
	Auto Talk	("Off"): page 14

*1 When the ringer volume is turned off, ✕ is displayed and the handset does not ring for outside calls.
However even when the ringer volume is turned off, the handset rings:
– at the minimum level for alarm and intercom calls
– at the maximum level for paging

*2 If you select one of the melody ringtones, the ringtone will continue to sound for several seconds if the caller hangs up before you answer. You may hear a dial tone or no one on the line when you answer a call.

*3 The preset melodies in this product are used with permission of © 2006 Copyrights Vision Inc.

*4 "Off": Displays the current date and time only.
"Handset Number": Displays the handset number such as "[1]".
"Base Number": Displays the base unit number such as "-1-".

Special instructions for time settings

Alarm

An alarm will sound for 3 minutes at the set time once or daily. Set the date and time beforehand (page 12).

1 ⊞ (centre of joystick) → *і* → **OK**

2 [▲]/[▼]: "Time Settings" → **OK**

3 [▲]/[▼]: "Alarm" → **OK** 2 times

4 [▲]/[▼]: Select an alarm mode. → **OK**

"Off" Turns alarm off. Press **OK** again, then press [✕⏻] to finish.
"Once" The alarm sounds once at the set time. Enter the desired date and month.
"Daily" An alarm sounds daily at the set time.

5 Enter the desired hour and minute. → **OK**

6 [▲]/[▼]: Select the desired ringtone. → **OK**

7 [▲]/[▼]: "Save" → **OK** → [✕⏻]
● When the alarm is set, ⏰ is displayed.

Note:
● To stop the alarm, press any dial key.
● When in talk or intercom mode, the alarm will not sound until the call has ended.
● If you select "Once", the setting will change to "Off" after the alarm sounds.

Special instructions for ringer setup

Night mode

Night mode allows you to select a block of time during which the handset will not ring for outside calls. This feature is useful for times when you do not want to be disturbed, for example, while sleeping.
Using the handset phonebook's category feature (page 16), you can also select categories of callers whose calls will override night mode and ring the handset (Caller ID subscribers only).
Set the date and time beforehand (page 12).

Setting the start and end time

1 ⊞ (centre of joystick) → *і* → **OK**

2 [▲]/[▼]: "Ringer Setup" → **OK**

3 [▲]/[▼]: "Night Mode" → **OK**

4 [▲]/[▼]: "Start/End" → **OK**

5 Enter the desired hour and minute you wish to start this feature.

6 Enter the desired hour and minute you wish to end this feature.

7 **OK** → [✕⏻]

Turning night mode on/off

1 ⊞ (centre of joystick) → *і* → **OK**

2 [▲]/[▼]: "Ringer Setup" → **OK**

3 [▲]/[▼]: "Night Mode" → **OK**

4 [▲]/[▼]: "On/Off" → **OK**

5 [▲]/[▼]: "On" or "Off" → **OK** → [✕⏻]

● When the night mode is set, ☹ is displayed.

Setting the ring delay

This setting allows the handset to ring during night mode if the caller waits long enough. After the selected amount of time passes, the handset will ring. If you select "No Ringing", the handset will not ring during night mode.

1 ⊞ (centre of joystick) → *│* → **OK**

2 [▲]/[▼]: "Ringer Setup" → **OK**

3 [▲]/[▼]: "Night Mode" → **OK**

4 [▲]/[▼]: "Ring Delay" → **OK**

5 [▲]/[▼]: Select the desired setting. → **OK** → [✆⊙]

Selecting categories to bypass night mode

1 ⊞ (centre of joystick) → *│* → **OK**

2 [▲]/[▼]: "Ringer Setup" → **OK**

3 [▲]/[▼]: "Night Mode" → **OK**

4 [▲]/[▼]: "Select Category" → **OK**

5 Press the desired category numbers. → **OK**
   ● The selected category number will flash.
   ● To cancel a selected category number, press the number again. The number will stop flashing.

6 [✆⊙]

Base unit settings

To customise the base unit using the handset:

1 ⊞ (centre of joystick)

2 Select 🖃 by pushing the joystick in any direction. → **OK**

3 Push the joystick up or down to select the desired item in the base unit settings menu. → **OK**

4 Push the joystick up or down to select the desired item in the sub-menu. → **OK**

5 Push the joystick up or down to select the desired setting then press **OK**.
   ● This step may vary depending on the feature being programmed.
   ● To exit the operation, press [✆⊙].

Note:
● The current item or setting is highlighted on the display.

Menu	Sub-menu	Details (default setting)
Call Options	Dial Mode	("Tone"): page 12
	Recall/Flash	Flash time ("400 msec.")[1]
	Call Restrict	page 24
Other Options	Base Unit PIN	Change base unit PIN ("0000").[2]
		– Enter the current 4-digit base unit PIN.[3]
		– Enter the new 4-digit base unit PIN. → **OK** → [✆⊙]
	Repeater Mode	("Off"): page 36

[1] Change the flash time, if necessary, depending on the requirements of your service provider/telephone company or PBX.

[2] If you change the PIN, please make note of your new PIN. The unit will not reveal the PIN to you.

[3] If you forget your PIN, consult your nearest Panasonic service centre.

Special instructions for call options

Setting call restriction

You can restrict selected handsets from dialling certain numbers. You can assign up to 6 phone numbers to be restricted, and select which handsets will be restricted. Storing area codes here will prevent the restricted handsets from dialling any phone number in that area code.

1 ⊞ (centre of joystick) → ☎ → **OK**

2 [▲]/[▼]: "Call Options" → **OK**

3 [▲]/[▼]: "Call Restrict" → **OK**

4 Enter the base unit PIN (default: "0000").
   • If you forget your PIN, consult your nearest Panasonic service centre.

5 Set which handsets will be restricted by pressing the desired handset number.
   • All the registered handset numbers will be displayed.
   • Flashing numbers indicate call restriction is turned on for the corresponding handset.
   • To turn call restriction off for a handset, press the number again. The number will stop flashing.

6 **OK**

7 [▲]/[▼]: Select a memory location. → **OK**

8 Enter the phone number or area code to be restricted (8 digits max.). → **OK** → [✆⊙]

• To erase a restricted number, press [C/☒].

Using Caller ID service

Important:
• This unit is Caller ID compatible. To use Caller ID features (such as displaying caller phone numbers), you must subscribe to Caller ID service. Consult your service provider/telephone company for details.

Caller ID features

When an outside call is received, the caller's phone number will be displayed.
• Phone numbers of the last 50 callers will be logged in the caller list.
• When caller information is received and it matches a phone number stored in the unit's phonebook:
   – The stored name will be displayed and logged in the caller list.
   – The handset will use the display colour and ringtone assigned to the caller's category.
• If the unit is connected to a PBX system, you may not receive the caller information.
• When the caller dialled from an area which does not provide Caller ID service, "Out of Area" will be displayed.
• When the caller requested not to send caller information, either no information or "Private Caller" will be displayed.

Missed calls

If a call is not answered, the unit treats the call as a missed call. ✆ and the number of missed calls are shown on the display. This lets you know if you should view the caller list to see who called while you were out.

Call Waiting Caller ID display

If you subscribe to both Caller ID and Call Waiting with Caller ID services, the 2nd caller's information is displayed after you hear a Call Waiting tone. You can answer the 2nd call, keeping the 1st call on hold.

Note:
• Please contact your service provider/telephone company for details and availability of this service in your area.

Category features for handset phonebook

Categories can help you identify who is calling by using different ringtones and display colours for different categories of callers. When adding an entry to the handset phonebook you can assign it to the desired category (page 16). When a call is received from a caller assigned to a category, the category's display colour and ringtone you selected are used.

Changing category ringtones

If you select "Ext. Ringtone", the unit will use the external ringtone you set on page 19 when calls from this category are received. The default setting is "Ext. Ringtone".

1 ☒ (left soft key) → ⊞

2 [▲]/[▼]: "Category" → **OK**

3 [▲]/[▼]: Select a category. → **OK**

4 [▲]/[▼]: Select the current setting of the category ringtone. → **OK**

5 [▲]/[▼]: Select the desired ringtone. → **OK** → [✆⊙]

Changing category display colours

If you select "Display Colour", the unit will use the display colour you set on page 19 when calls from this category

are received. The default setting is "Display Colour".

1 ✉ (left soft key) → ▦
2 [▲]/[▼]: "Category" → **OK**
3 [▲]/[▼]: Select a category. → **OK**
4 [▲]/[▼]: Select the current setting of the category colour. → **OK**
5 [▲]/[▼]: Select the desired colour. → **OK** → [✆①]

Caller list

Viewing the caller list and calling back

1 ▦ (centre of joystick) → ✆ → **OK**
2 Push the joystick down to search from the most recent call, or push the joystick up to search from the oldest call.
   - If the item has already been viewed or answered, "✓" is displayed, even if it was viewed or answered using another handset.
   - To erase the item, press ✖ . → [▲]/[▼]: "Yes" → **OK**
3 [✆]

Editing a caller's phone number before calling back

1 ▦ (centre of joystick) → ✆ → **OK**
2 [▲]/[▼]: Select the desired entry. → ▦
3 [▲]/[▼]: "Edit and Call" → **OK**
4 Edit the number.
   - Press dial key ([0] to [9]) to add, [C/✉] to delete.

5 [✆]

Erasing caller information

1 ▦ (centre of joystick) → ✆ → **OK**
2 [▲]/[▼]: Select the desired entry. → ▦
3 [▲]/[▼]: "Erase" or "Erase All" → **OK**
4 [▲]/[▼]: "Yes" → **OK** → [✆①]

Storing caller information into the handset phonebook

1 ▦ (centre of joystick) → ✆ → **OK**
2 [▲]/[▼]: Select the desired entry. → ▦
3 [▲]/[▼]: "Add Phonebook" → **OK**
4 Continue from step 3, "Adding entries", page 16.

Voice mail service

Voice mail is an automatic answering service offered by your service provider/telephone company. If you subscribe to this service, your service provider/telephone company's voice mail system will answer calls for you when you are unavailable to answer the phone or when your line is busy. Messages are recorded by your service provider/telephone company, not your telephone. When you have new messages, ✉ will be displayed on the handset. Please consult your service provider/telephone company for details of this service.

Note:
- If ✉ still remains on the display even after you have listened to new messages, turn it off by pressing and holding [C/✉] for 2 seconds.

Using SMS

SMS allows you to send and receive text messages between other fixed-line and mobile phones that support compatible SMS networks and features.
Messages can also be forwarded by your SMS provider to fax machines and e-mail addresses.

Important:

● To use SMS features, you must:
  – subscribe to Caller ID and/or appropriate service
  – confirm SMS is turned on
  – confirm the correct message centre numbers are stored
  Consult your service provider/telephone company for details and availability.
● This unit cannot send or receive Chinese characters.
  – Messages that contain only Chinese characters cannot be sent or received.
  – If a message contains Chinese characters and non-Chinese characters, "**This message contains unrecognized characters.**" will be displayed and the Chinese characters will be displayed as "_". (Non-Chinese characters will be displayed normally.)
● This unit cannot send or receive images or ringtones.

Using public mailbox and public keys

SMS messages can be sent and received using the public mailbox. SMS messages can also be received using one of the 6 public keys, which are password protected to ensure privacy.

Important:

● To receive a message using a public key, you must first create the public key by storing its name and password (page 32).

Note:

● A total of 47 messages (at 160 characters/message) in all mailboxes added together can be saved. Total number may be more than 47 if length of messages is less than 160 characters/message.
● If the unit is connected to a PBX system, you may not be able to use SMS features.

Turning SMS on/off

The default setting is "**On**".

1 ▦ (centre of joystick) → ✉ → **OK**
2 [▲]/[▼]: "**Settings**" → **OK**
3 [▲]/[▼]: "**SMS On/Off**" → **OK**
4 [▲]/[▼]: "**On**" or "**Off**" → **OK** → [✆①]

Changing SMS message centre numbers

SMS message centre telephone numbers must be stored in order to send and receive SMS messages.
The message centre numbers are preprogrammed in this unit. You can change them if necessary. Consult your service provider/telephone company for more information.

1 ▦ (centre of joystick) → ✉ → **OK**
2 [▲]/[▼]: "**Settings**" → **OK**
3 [▲]/[▼]: "**Message Centre1**" or "**Message Centre2**" → **OK**
4 Edit the number as necessary. → **OK**
5 [▲]/[▼]: "**Save**" → **OK** → [✆①]

Note:

● For PBX users:
  – You need to add the PBX line access number and a dialling pause to the beginning of the Message Centre 1 phone number.
  – If you only use the Message Centre 1 phone number for SMS, store the Message Centre 1 phone number as is (without adding a line access number or dialling pause) to Message Centre 2.

Sending a message

Writing and sending a new message to a phone

1 ▦ (centre of joystick) → ✉ → **OK**
2 [▲]/[▼]: "**Create**" → **OK**
  ● If "**▲Use Last Text?**" is displayed, you can use the text from the last message you created by pushing the joystick up.
3 Enter the message (page 38). → **OK**
4 Enter the destination phone number (20 digits max.). → **OK**
  ■ **Using the redial list:**
  Press [☎] repeatedly to select the phone number. → **OK** 2 times

■ **Using the caller list:**
  [▲]/[▼]: Select the party. → **OK** 2 times
■ **Using the handset phonebook:**
  [📖] → [▲]/[▼]: Select the handset phonebook entry. → **OK** 2 times

5 To save the message, select "**Yes**". → **OK**
6 To send the message, press **OK**.
  ● To cancel sending, press [✆①].

Note:

● This unit supports SMS messages of up to 640 characters, however, the maximum number of characters you can send or receive may be limited by your SMS service provider/telephone company. Consult your SMS service provider/telephone company for details.
● If your message contains over 160 characters, the message is a long message and ⫿ is displayed. Your service provider/telephone company may treat long messages differently from other messages. Consult your service provider/telephone company for details.
● If your phone is connected to a PBX, store the PBX line access number (page 32).

Sending a message to a specific person

For privacy, you can send a message to a specific person if you know the person's public key (mailbox name).

1 Write a message (page 29), but do not send it.
2 Before selecting "**Send**", select "**Public Key**". → **OK**
3 Enter the public key (5 characters max.). → **OK**

4 [▲]/[▼]: "Send" → **OK**

Requesting a receipt when sending a message

When sending a message, you can request a receipt to be sent to you when your message has been sent by your SMS provider.

1 Write a message (page 29), but do not send it.

2 Before selecting "Send", select "Receipt". → **OK**

3 [▲]/[▼]: "Yes" or "No" → **OK**

4 [▲]/[▼]: "Send" → **OK**

Writing and sending a new message to a fax

1 🔘 (centre of joystick) → ✉ → **OK**

2 [▲]/[▼]: "Create" → **OK**

3 Enter the message. → **OK** → 🔘

4 [▲]/[▼]: "Fax Number" → **OK**

5 Enter the fax number (20 digits max.). → **OK**

6 Enter a header to be printed at the top of the fax (50 characters max.). → **OK**

7 To save the message, select "Yes". → **OK**

8 [▲]/[▼]: "Send" → **OK**

Writing and sending a new message to an e-mail address

1 🔘 (centre of joystick) → ✉ → **OK**

2 [▲]/[▼]: "Create" → **OK**

3 Enter the message. → **OK** → 🔘

4 [▲]/[▼]: "E-Mail Address" → **OK**

5 Enter the e-mail address (70 characters max.). → **OK**

6 To save the message, select "Yes". → **OK**

7 [▲]/[▼]: "Send" → **OK**

Sending a saved message

1 🔘 (centre of joystick) → ✉ → **OK**

2 [▲]/[▼]: "Send List" → **OK**

3 To read a saved message, push the joystick up or down to select the message. → **OK**

4 To send the message, press 🔘. → [▲]/[▼]: "Send" → **OK**

5 Press and hold [C/⌫] to erase all numbers.

6 Continue from step 4, "Writing and sending a new message to a phone", page 29.

Editing and sending a saved message

1 🔘 (centre of joystick) → ✉ → **OK**

2 [▲]/[▼]: "Send List" → **OK**

3 [▲]/[▼]: Select a message. → **OK**

4 🔘 → [▲]/[▼]: "Edit Message" → **OK**

5 Continue from step 3, "Writing and sending a new message to a phone", page 29.

Erasing saved messages

1 🔘 (centre of joystick) → ✉ → **OK**

2 [▲]/[▼]: "Send List" → **OK**

3 [▲]/[▼]: Select a message. → **OK**

4 🔘 → [▲]/[▼]: "Erase" or "Erase All" → **OK**

5 [▲]/[▼]: "Yes" → **OK** → [✱☎]

Note:
- If "Inform SMSC?" is displayed, select "Yes" then press **OK** to have the unit inform the SMS message centre that memory is now available to receive new messages.

Receiving a message

When an SMS message is received:
- "Receiving SMS Message" is displayed
- a tone is heard (if the handset ringer is turned on)
- ✉ is displayed with the total number of new (unread) SMS messages

Reading a received message

1 🔘 (centre of joystick) → ✉ → **OK**

2 [▲]/[▼]: "Receive List" → **OK**

3 Proceed with the desired operation.
  ■ **To access the public mailbox**
  [▲]/[▼]: "Public" → **OK**
  ■ **To access a private mailbox**
  [▲]/[▼]: Select the desired mailbox. → **OK** → Enter its password.
    • If a mailbox contains new (unread) SMS messages, "✱" is displayed next to the total number of messages for that mailbox.

4 [▲]/[▼]: Select a message.
  • Messages which have already been read are indicated by a "✓", even if they were read using another handset.

- To erase a message, press ✖. → [▲]/[▼]: "Yes" → **OK**

5 Press **OK** to read the message content.

Note:
- To call the message sender, press [☎] or [📢].

Replying to a message

1 While reading a received message, press 🔘.

2 [▲]/[▼]: "Reply" → **OK**

3 Enter a message (page 38). → **OK**

4 Edit the destination phone number and/or press **OK**.

5 Continue from step 5, "Writing and sending a new message to a phone", page 29.

Editing/forwarding a message

1 While reading a received message, press 🔘.

2 [▲]/[▼]: "Edit Message" → **OK**

3 Continue from step 3, "Writing and sending a new message to a phone", page 29.

Erasing received messages

1 While reading a received message, press 🔘.

2 [▲]/[▼]: "Erase" or "Erase All" → **OK**
  • All messages in the selected mailbox are erased, when selecting "Erase All".

3 [▲]/[▼]: "Yes" → **OK** → [✱☎]

Storing the sender's number in the handset phonebook

1 While reading a received message, press 📧.

2 [▲]/[▼]: "Add Phonebook" → **OK**

3 Continue from step 3, "Adding entries", page 16.

Editing the sender's number before calling back

1 While reading a received message, press 📧.

2 [▲]/[▼]: "Edit and Call" → **OK**

3 Edit the number. → [↘]

Other settings

Storing/changing the public keys

Public keys are similar to mailboxes, and allow you to password protect your received messages. You can create 6 public keys and assign a password to each. You can change the password or name of the public key and erase the public key.

1 📧 (centre of joystick) → ✉ → **OK**

2 [▲]/[▼]: "Settings" → **OK**

3 [▲]/[▼]: "Public Key" → **OK**

4 Select the desired public key ("Public Key1" to "Public Key6"). → **OK**
   ● To change a public key, select the public key. → **OK** 2 times →

Enter the 4-digit public key password. → Go to step 5.
   ● To erase the public key, select the public key. → **OK** 2 times → Enter the 4-digit public key password. → Press and hold [C/🔇]. → **OK** → [▲]/[▼]: "Yes" → **OK** → [✱☉]

5 Enter a name for the public key (5 characters max., page 38). → **OK**

6 Enter a 4-digit password for the public key. → **OK**

7 [▲]/[▼]: "Save" → **OK** → [✱☉]

Note:
● To receive SMS messages with your public key, inform others of your public key name.
● If you change the name of a public key which has messages in the receive list, the messages will remain in the receive list under the new public key name.
● If you erase a public key which has messages in the receive list, the messages will also be erased.
● If you forget the password assigned to a public key, consult your nearest Panasonic service centre.

Storing the PBX line access number (for PBX users only)

Store your PBX line access number (4 digits max.) so that SMS messages are sent properly. When sending SMS messages to entries in the handset phonebook or redial list, the PBX line access number will be deleted. The default setting is "Off".

1 📧 (centre of joystick) → ✉ → **OK**

2 [▲]/[▼]: "Settings" → **OK**

3 [▲]/[▼]: "PBX Access No." → **OK**

4 [▲]/[▼]: "On" → **OK**

5 Enter your PBX line access code and a dialling pause, if necessary. → **OK**

6 [▲]/[▼]: "Save" → **OK** → [✱☉]

Operating additional units

Additional handsets

Up to 6 handsets can be registered to a single base unit.

Important:

- The additional handset model recommended for use with this unit is noted on page 4. If other model handset is used, certain operations (handset settings, base unit settings, etc.) may not be available.
- Additional handsets will give you the freedom to, for example, have an intercom call with another handset while a third handset is on an outside call.

Additional base units

Handsets can be registered to up to 4 base units, allowing you to add additional base units and extend the area in which your handset(s) can be used. If a handset moves out of range of its base unit when "**Auto**" is selected on base unit selection (page 35), it will look for another base unit to make or receive calls. A base unit and the handsets it communicates with is called a "radio cell".

Note:

- Calls will be disconnected when the handset moves from one radio cell to another.

Registering a handset to a base unit

The supplied handset and base unit are pre-registered. When you purchase an additional handset, refer to the additional handset's installation manual for registration. If for some reason the handset is not registered to the base unit (for example, Y flashes even when the handset is near the base unit), register the handset.

1　⊞ (centre of joystick) → *§* → **OK**

2　[▲]/[▼]: "**Registration**" → **OK**

3　[▲]/[▼]: "**Register H.set**" → **OK**

4　[▲]/[▼]: Select a base unit number. → **OK**
- This number is used by the handset as a reference only.

5　Press and hold [·»)] on the base unit for about 5 seconds. (No registration tone)
- If all registered handsets start ringing, press [·»)] to stop, then repeat this step.
- After pressing [·»)], the rest of this procedure must be completed within 90 seconds.

6　Wait until "**Enter Base PIN**" is displayed. → Enter the base unit PIN (default: "**0000**"). → **OK**
- If you forget your PIN, consult your nearest Panasonic service centre.
- When the handset has been registered successfully, Y will stop flashing. If the key tone is turned on (page 20), a confirmation tone will be heard.

Selecting a base unit

When "**Auto**" is selected, the handset will automatically use any available base unit it is registered to. When a specific base unit is selected, the handset will make and receive calls using that base unit only. If the handset is out of range of that base unit, no calls can be made.

1　⊞ (centre of joystick) → *§* → **OK**

2　[▲]/[▼]: "**Select Base**" → **OK**

3　[▲]/[▼]: Select the desired base unit number, or "**Auto**". → **OK**
- The handset starts searching for the base unit.

Deregistering a handset

A handset can cancel its own registration (or the registration of another handset) that is stored in the base unit. This will allow the base unit to "forget" the handset.

1　⊞ (centre of joystick) → ✆ → **OK**

2　Enter "**335**".

3　[▲]/[▼]: "**Deregistration**" → **OK**
- The numbers of all handsets registered to the base unit are displayed.

4　Select the handset(s) you want to cancel, by pressing the desired handset number. → **OK**
- The selected handset number(s) will flash.
- To cancel a selected handset number, press the number again. The number will stop flashing.

5　[▲]/[▼]: "**Yes**" → **OK**
- A long beep will sound as each handset number disappears.

- The handset does not beep when cancelling its own registration.

6　[✂①]

Cancelling a base unit

A handset can cancel a base unit that it is registered to. This allows the handset to "forget" the base unit.

1　⊞ (centre of joystick) → *§* → **OK**

2　[▲]/[▼]: "**Registration**" → **OK**

3　Enter "**335**".

4　[▲]/[▼]: "**Cancel Base**" → **OK**

5　Select the base unit(s) you want to cancel, by pressing the desired base unit number. → **OK**
- The selected base unit number(s) will flash.
- To cancel a selected base unit number, press the number again. The number will stop flashing.

6　[▲]/[▼]: "**Yes**" → **OK** → [✂①]

Note:

- To register the handset to another base unit or to the same base unit again, see page 34.

Increasing the range of the base unit

You can increase the signal range of the base unit by using a DECT repeater. Please use only the Panasonic DECT repeater noted on page 4. Consult your Panasonic dealer for details.

Important:

- Before registering the repeater to this base unit, you must turn the repeater mode on.
- Do not use more than one repeater at a time.

Setting the repeater mode

1 (📶) (centre of joystick) → 🔊 → (OK)

2 [▲]/[▼]: "Other Options" → (OK)

3 [▲]/[▼]: "Repeater Mode" → (OK)

4 [▲]/[▼]: "On" or "Off" → (OK) → [✆⚫]

Note:
● After turning repeater mode on or off, Ŷ will flash on the handset momentarily. This is normal. The handset can be used once Ŷ stops flashing.

Intercom between handsets

Intercom calls can be made between handsets in the same radio cell.
Example: When handset 1 calls handset 2

1 **Handset 1:**
[INT] → Press [2] (desired handset number).

2 **Handset 2:**
[✆]

3 When finished talking, press [✆⚫].

Transferring calls between handsets, conference calls

Outside calls can be transferred between 2 people in the same radio cell.

2 people in the same radio cell can have a conference call with an outside party.
Example: When handset 1 transfers a call to handset 2

1 **Handset 1:**
During an outside call, press [INT].
→ Press [2] (desired handset number).
● The outside call will be put on hold.
● If there is no answer, press [INT] to return to the outside call.

2 **Handset 2:**
[✆]
● Handset 2 can talk with handset 1.

3 **Handset 1:**
To complete the call transfer, press [✆⚫].
To establish a conference call, press [3].

Transferring a call without speaking to the other handset user

1 During an outside call, press [INT].
→ Press the desired handset number.
● ✆ flashes to indicate the outside call is on hold.

2 [✆⚫]
● The outside call rings at the other handset.

Note:
● If the other handset user does not answer the call within 1 minute, the call will ring at your handset again.

Copying phonebook entries

You can copy handset phonebook entries to the handset phonebook of another compatible Panasonic handset.
Note:
● Category settings for phonebook entries are not copied.

Copying one entry

1 Find the desired handset phonebook entry (page 16). → (📶)

2 [▲]/[▼]: "Copy" → (OK)

3 Enter the handset number you wish to send the handset phonebook entry to.
● When an entry has been copied, "Completed" is displayed.
● To continue copying another entry:
[▲]/[▼]: "Yes" → (OK) → Find the desired handset phonebook entry. → (OK)

4 [✆⚫]

Copying all entries

1 (left soft key) → (📶)

2 [▲]/[▼]: "Copy All" → (OK)

3 Enter the handset number you wish to send the handset phonebook entry to.
● When all entries have been copied, "Completed" is displayed.

4 [✆⚫]

Character entry

The dial keys are used to enter characters and numbers. Each dial key has multiple characters assigned to it. The available character entry modes are Alphabet (ABC), Numeric (0-9), Greek (ABΓ), Extended 1 (AÄÅ), Extended 2 (SŚŠ), and Cyrillic (АБВ). For SMS messages, Alphabet (ABC), Numeric (0-9), Greek (ABΓ), and Extended (AÄÅ) modes are available. When in these entry modes except Numeric, you can select which character is entered by pressing a dial key repeatedly.

- Use the joystick to move the cursor.
- Press dial keys to enter characters and numbers.
- Press [C/⊠] to erase the character or number highlighted by the cursor. Press and hold [C/⊠] to erase all characters or numbers.
- Press [✳] to switch between uppercase and lowercase.
- To enter another character located on the same dial key, push the joystick right to move the cursor to the next space, then press the appropriate dial key.

Character entry modes

Several character entry modes can be used when entering text. The characters that can be entered depend on the entry mode.

Characters available in each character entry mode

When the unit displays the character entry screen:

⬛ (right soft key) → [▲]/[▼]: Select a character entry mode. → **OK**

Note:
- For character entry when writing SMS messages, see page 40.

Alphabet character table (ABC)

0	1	ABC 2	DEF 3	GHI 4	JKL 5	MNO 6	PQRS 7	TUV 8	WXYZ 9
Space 0	Space # & ' ( ) ✳ . - , / 1	A B C 2	D E F 3	G H I 4	J K L 5	M N O 6	P Q R S 7	T U V 8	W X Y Z 9
		a b c 2	d e f 3	g h i 4	j k l 5	m n o 6	p q r s 7	t u v 8	w x y z 9

Numeric entry table (0-9)

0	1	ABC 2	DEF 3	GHI 4	JKL 5	MNO 6	PQRS 7	TUV 8	WXYZ 9
0	1	2	3	4	5	6	7	8	9

Greek character table (ABΓ)

0	1	ABC 2	DEF 3	GHI 4	JKL 5	MNO 6	PQRS 7	TUV 8	WXYZ 9
Space 0	Space # & ' ( ) ✳ . - , / 1	A B Γ 2	Δ E Z 3	H Θ I 4	K Λ M 5	N Ξ O 6	Π P Σ 7	T Y Φ 8	X Ψ Ω ð 9

Extended 1 character table (AÄÅ)

0	1	ABC 2	DEF 3	GHI 4	JKL 5	MNO 6	PQRS 7	TUV 8	WXYZ 9
Space 0	Space # & ' ( ) ✳ . - , / 1	A À Á Â Ã Ä Å Æ B Ç 2	D E É Ê Ë F 3	G Ğ H Ì Í Î Ï I 4	J K L 5	M N Ñ O Ò Ó Ô Õ Ø 6	P Q R S ß 7	T U Ù Ú Û Ü V 8	W Ŵ X Y ŷ Z 9
		a à á â ã ä å æ b ç 2	d e è é ê ë f 3	g ğ h ì í î ï i 4	j k l 5	m n ñ o ò ó ô õ ø 6	p q r s ß 7	t u ù ú û ü v 8	w ŵ x y ŷ z 9

- The following are used for both uppercase and lowercase: ø Ş Ŵ ŷ

Extended 2 character table (SŚŠ)

0	1	ABC 2	DEF 3	GHI 4	JKL 5	MNO 6	PQRS 7	TUV 8	WXYZ 9
Space 0	Space # & ' ( ) ✳ . - , / 1	A Á Â Ą B C Ć Č Ç 2	D Ď E É Ę Ě F 3	G H I Í 4	J K L Ł Ĺ Ľ 5	M N Ń Ñ O Ó Ô Ö 6	P Q R Ř S Ś Š 7	T Ť U Ú Ů V 8	W X Y ý Z Ź Ż Ž 9
		a á â ą b c ć č ç 2	d ď e é ę ě f 3	g h i í 4	j k l ł ĺ ľ 5	m n ń ñ o ó ô ö 6	p q r ř s ś š 7	t ť u ú ů v 8	w x y ý z ź ż ž 9

- The following are used for both uppercase and lowercase:

Ą Ć Č Ę Ł Ĺ Ľ Ń Ŕ Ś Š û ý Ź Ż Ž

Cyrillic character table (АБВ)

0	1	ABC 2	DEF 3	GHI 4	JKL 5	MNO 6	PQRS 7	TUV 8	WXYZ 9
Space 0 ґ є і ї ÿ	Space # & ' ( ) ✳ . - , / 1	А Б В Г 2	Д Е Ж 3	И Й К 4	Л 5	М Н О П 6	Р С Т У 7	Ф Х Ц Ч 8	Ш Щ Ъ Ы Ь Э Ю Я 9

When writing SMS messages

Alphabet character table (ABC)

0	1	ABC 2	DEF 3	GHI 4	JKL 5	MNO 6	PQRS 7	TUV 8	WXYZ 9
Space 0	Space . @ / : ; * # + - 1 " ' , ! ¡ ? ¿ _ € £ $ ¥ ( ) [ ] { } & % \ ^ ~ ¦ < > = ¤ §	A B C 2	D E F 3	G H I 4	J K L 5	M N O 6	P Q R S 7	T U V 8	W X Y Z 9
		a b c 2	d e f 3	g h i 4	j k l 5	m n o 6	p q r s 7	t u v 8	w x y z 9

Numeric entry table (0-9)

0	1	ABC 2	DEF 3	GHI 4	JKL 5	MNO 6	PQRS 7	TUV 8	WXYZ 9
0	1	2	3	4	5	6	7	8	9

Greek character table (ABΓ)

0	1	ABC 2	DEF 3	GHI 4	JKL 5	MNO 6	PQRS 7	TUV 8	WXYZ 9
Space 0	Space . @ / : ; * # + - 1 " ' , ! ¡ ? ¿ _ € £ $ ¥ ( ) [ ] { } & % \ ^ ~ ¦ < > = ¤ §	A B Γ 2	Δ E Z 3	H Θ I 4	K Λ M 5	N Ξ O 6	Π P Σ 7	T Y Φ 8	X Ψ Ω 9

Extended character table (AÄÅ)

0	1	ABC 2	DEF 3	GHI 4	JKL 5	MNO 6	PQRS 7	TUV 8	WXYZ 9
Space 0	Space . @ / : ; * # + - 1 " ' , ! ¡ ? ¿ _ € £ $ ¥ ( ) [ ] { } & % \ ^ ~ ¦ < > = ¤ §	A Å Á Â Ã Ä À Æ B C Ç 2	D E È É Ê Ë F 3	G Ğ H I Ì Í Î Ï 4	J K L 5	M N Ñ O Ò Ó Ô Õ Ö ø 6	P Q R S ß 7	T U Ù Ú Û Ü V 8	W X Y Z 9
		a å á â ã ä à æ b c ç 2	d e è é ê ë f 3	g ğ h i ì í î ï 4	j k l 5	m n ñ o ò ó ô õ ö ø 6	p q r s ß 7	t u ù ú û ü v 8	w x y z 9

* The following are used for both uppercase and lowercase: ø ß

Error messages

Error message	Cause & solution
Failed	● Phonebook copy failed. Confirm the other handset (the receiver) is in standby mode and try again.
Incomplete	● The receiver's phonebook memory is full. Erase the unnecessary phonebook entries from the other handset (the receiver) and try again.
Invalid Number	● You tried to send an SMS message to a phone number saved in the handset phonebook, caller list, or redial list that is over 20 digits long.
Memory Full	● The handset's phonebook memory is full. Erase unnecessary entries (page 17).
No link to base. Move closer to base, try again.	● The handset has lost communication with the base unit. Move closer to the base unit and try again. ● Unplug the base unit's AC adaptor to reset the unit. Reconnect the adaptor and try again. ● The handset's registration may have been cancelled. Re-register the handset (page 34).
SMS Full	● Erase unnecessary messages (page 30, 31).
You must first subscribe to Caller ID.	● You must subscribe to Caller ID service. Once you receive caller information after subscribing to Caller ID service, this message will not be displayed.

Troubleshooting

If you still have difficulties after following the instructions in this section, disconnect the base unit AC adaptor and turn off the handset, then reconnect the base unit AC adaptor and turn on the handset.

Telephone

Problem	Cause & solution
Ｙ is flashing.	• The handset is not registered to the base unit. Register it (page 34). • The handset is too far from the base unit. Move closer. • The base unit AC adaptor is not connected. Check the connections. • You are using the handset or base unit in an area with high electrical interference. Place the handset and base unit away from interference sources, such as antennas and mobile phones.
The handset display is blank.	• The handset is in screen saver mode (page 11). Press [×①] to activate the handset display again. • The handset is not turned on. Turn the power on (page 12).
The handset will not turn on.	• Make sure that the batteries are installed correctly (page 10). • Fully charge the batteries (page 11). • Clean the charge contacts and charge again (page 11).
I have changed the display language to a language I cannot read.	• Change the display language (page 12).

Problem	Cause & solution
I cannot make or receive calls.	• The base unit AC adaptor or telephone line cord is not connected. Check the connections. • If you are using a splitter to connect the unit, remove the splitter and connect the unit to the wall socket directly. If the unit operates properly, check the splitter. • Disconnect the base unit from the telephone line and connect the line to a known working telephone. If the working telephone operates properly, contact our service personnel to have the unit repaired. If the working telephone does not operate properly, contact your service provider/telephone company. • The dialling mode setting is incorrect. Set to "**Tone**" or "**Pulse**" as needed (page 12). • You dialled a call restricted number (page 24). • The key lock feature is turned on. Turn it off (page 15).
The unit does not ring.	• The ringer volume is turned off. Adjust the ringer volume (page 19). • The night mode feature is turned on. Turn it off (page 21).
The batteries should be charging but the battery icon does not change.	• Clean the charge contacts and charge again (page 11).
A busy tone is heard when [↘] is pressed.	• The handset is too far from the base unit. Move closer and try again. • Another handset is in use. Wait and try again later.
Static is heard, sound cuts in and out. Interference from other electrical units.	• Place the handset and the base unit away from other electrical appliances. • Move closer to the base unit. • Your unit is connected to a telephone line with DSL service (page 45).
Noise is heard during a call.	• You are using the handset or base unit in an area with high electrical interference. Place the handset and base unit away from interference sources, such as antennas and mobile phones.
The handset stops working while being used.	• Disconnect the base unit AC adaptor and turn off the handset. Connect the base unit AC adaptor, turn on the handset and try again.
The handset beeps intermittently and/or ▭ flashes.	• Fully charge the batteries (page 11).

Problem	Cause & solution
I fully charged the batteries, but 🔋 still flashes.	• Clean the charge contacts and charge again (page 11). • It is time to replace the batteries (page 10).
I fully charged the batteries, but the operating time seems to be short.	• Wipe the battery ends (⊕, ⊖) and the unit contacts with a dry cloth.
Caller information is not displayed.	• You need to subscribe to Caller ID service. Consult your service provider/telephone company for details. • Your unit is connected to a telephone line with DSL service (page 45).
I cannot register a handset to a base unit.	• The maximum number of base units (4) are already registered to the handset. Cancel unused base unit registrations from the handset (page 35). • The maximum number of handsets (6) are already registered to the base unit. Cancel unused handset registrations from the base unit (page 35). • You entered the wrong PIN. If you forget your PIN, consult your nearest Panasonic service centre. • Place the handset and the base unit away from other electrical appliances.
I do not know how to erase →〗 (Missed call) from the display.	• There are unviewed missed calls remaining. View them using the following method. **1** ▦ (centre of joystick) → ⇥〗 → 🆗 **2** Push the joystick down to search from the most recent call, or push the joystick up to search from the oldest call.

SMS (Short Message Service)

Problem	Cause & solution
I cannot send or receive SMS messages.	• You have not subscribed to the appropriate service. Consult your service provider/telephone company. • The SMS message centre number(s) are not stored or are incorrect. Store the correct numbers (page 28). • Message transmission was interrupted. Wait until the message has been sent before using other telephone functions. • Your unit is connected to a telephone line with DSL service (page 45).

Problem	Cause & solution
The SMS message centre number is logged in the caller list and the message is not received.	• Someone tried to send you a message while SMS is turned off. Turn it on (page 28).
"This message contains unrecognized characters." is displayed.	• You have received a message which contains Chinese characters. Ask the sender to write the message using non-Chinese characters.
"FD" is displayed.	• The unit could not connect to the SMS message centre. Confirm that the correct SMS message centre numbers are stored (page 28). Confirm that SMS is turned on (page 28).
"FE" is displayed.	• An error occurred while sending the message. Try again.
"✓" is not displayed after I read a message.	• When an error code ("FD" or "FE") is displayed, "✓" will not be displayed even if you have read the message.

For DSL users

We recommend connecting a filter (contact your DSL service provider) to the telephone line between the base unit and the telephone line jack.

Specifications

■ **Standard:**
DECT (Digital Enhanced Cordless Telecommunications),
GAP (Generic Access Profile)

■ **Number of channels:**
120 Duplex Channels

■ **Frequency range:**
1.88 GHz to 1.90 GHz

■ **Duplex procedure:**
TDMA (Time Division Multiple Access)

■ **Channel spacing:**
1,728 kHz

■ **Bit rate:**
1,152 kbit/s

■ **Modulation:**
GFSK (Gaussian Frequency Shift Keying)

■ **RF transmission power:**
Approx. 250 mW

■ **Voice coding:**
ADPCM 32 kbit/s

■ **Power source:**
220–240 V, 50 Hz

■ **Power consumption**
Base unit:
Standby: Approx. 2.1 W
Maximum: Approx. 6.0 W

■ **Operating conditions:**
5 °C–40 °C, 20 %–80 % relative air humidity (dry)

■ **Dimensions:**
Base unit: Approx. 44 mm × 116 mm × 113 mm
Handset: Approx. 143 mm × 47 mm × 32 mm

■ **Mass (weight):**
Base unit: Approx. 170 g
Handset: Approx. 120 g

Note:
● Specifications are subject to change.

● The illustrations used in these operating instructions may differ slightly from the actual product.

Index